(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COPERATION TREATY (PCT)

### (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 16 October 2003 (16.10.2003)

**PCT** 

## (10) International Publication Number WO 2003/085660 A3

(51) International Patent Classification7:

G11B 11/105

(21) International Application Number:

PCT/IB2003/001065

(22) International Filing Date: 14 March 2003 (14.03.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 02076355.3

5 April 2002 (05.04.2002) EP

- (71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): VERSCHUREN, Coen, A. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

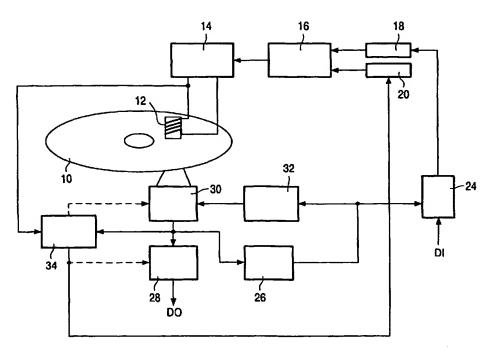
- (74) Agent: DEGUELLE, Wilhelmus, H., G.; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

[Continued on next page]

(54) Title: COPY WINDOW CONTROL FOR DATA DEPENDENT FIELD SWITCHING IN DOMAIN EXPANSION **READ-OUT** 



(57) Abstract: The present invention relates to a method and apparatus for controlling a copy window during read-out of a domain expansion medium (10), wherein a switching time of an external magnetic field is derived from a reading pulse. A shift in the timing of said reading pulse is used for controlling the size of the copy window. Thereby, read-out errors due to changes in the size of the copy window can be prevented.

# WO 2003/085660 A3



- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
- (88) Date of publication of the international search report: 8 January 2004

# INTERNATIONAL SEARCH REPORT

PCT/IB 03/01065

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G11B11/105									
According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS SEARCHED									
		n symbols)							
Minimum documentation searched (classification system followed by classification symbols)  IPC 7 G11B									
:									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)									
EPO-Internal, PAJ, INSPEC									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category °	Citation of document, with indication, where appropriate, of the rele	Relevant to daim No.							
Α	EP 0 913 818 A (SANYO ELECTRIC CO MAXELL (JP)) 6 May 1999 (1999-05- the whole document	1,16							
A	US 6 058 077 A (MIYAOKA YASUYUKI) 2 May 2000 (2000-05-02) the whole document	1,16							
A	WO 98 15949 A (SANYO ELECTRIC CO; YAMAGUCHI ATSUSHI (JP); SUMI SAT (JP); TANA) 16 April 1998 (1998-0 the whole document & US 6 538 968 B1 (YAMAGUCHI ATSU AL) 25 March 2003 (2003-03-25)	1,16							
Further documents are listed in the continuation of box C.  Patent family members are listed in annex.									
• Special categories of cited documents :									
"A" document defining the general state of the art which is not considered to be of particular relevance  "A" document defining the general state of the art which is not crited to understand the principle or theory underlying the invention									
filing date cannot be considered novel or cannot be considered to									
*L* document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another   Y document of particular relevance; the claimed invention									
citation or other special reason (as specified) cannot be considered to involve an inventive step when the									
"O" docum	*O* document referring to an oral disclosure, use, exhibition or document is combined with one or more other such document.								
"P" docum later t	family								
Date of the actual completion of the International search  Date of mailing of the International search									
5 November 2003		14/11/2003							
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer							
NL - 2280 HV Rijswijk									
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Nanos, A							

## INTERNATIONAL SEARCH REPORT

PCT/IB 03/01065

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0913818	A	06-05-1999	AU EP US WO KR	3459997 A 0913818 A 6424601 B 9802877 A 2000022390 A	1 06-05-1999 1 23-07-2002 1 22-01-1998
US 6058077	A	02-05-2000	JP	10092037 A	10-04-1998
WO 9815949	A	16-04-1998	AU DE WO US	4322897 A 19782042 T 9815949 A 6538968 B	0 02-09-1999 1 16-04-1998